International Journal of Approximate Reasoning

AIMS AND SCOPE

The *International Journal of Approximate Reasoning* is intended to serve as a forum for the treatment of imprecision and uncertainty in Artificial and Computational Intelligence, covering both the foundations of uncertainty theories, and the design of intelligent systems for scientific and engineering applications. It publishes high-quality research papers describing theoretical developments or innovative applications, as well as review articles on topics of general interest.

Relevant topics include, but are not limited to, fuzzy sets and systems, possibility theory, probabilistic reasoning and Bayesian networks, imprecise probabilities, random sets, belief functions (Dempster-Shafer theory), rough sets, decision theory, non-additive measures and integrals, qualitative reasoning about uncertainty, comparative probability orderings, default reasoning, nonstandard logics, elicitation techniques, philosophical foundations and psychological models of uncertain reasoning.

Domains of application and related technical areas include engineering and expert systems, information retrieval and database design, risk analysis and assessment, information fusion, machine learning, data and web mining, modeling and prediction, uncertainty in financial markets, evolutionary computation, computer vision, image and signal processing, pattern recognition, intelligent data analysis, statistics, robotics, hybrid soft computing systems, etc.

The journal is affiliated with the North American Fuzzy Information Processing Society (NAFIPS), and collaborates with the Society for Imprecise Probability: Theories and Applications (SIPTA).